

1949

BORDER RURAL DISTRICT COUNCIL



A N N U A L R E P O R T
OF THE
MEDICAL OFFICER OF HEALTH

A. H. TOWERS,
M.B., CH.B., B.HY., D.P.H.

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ANNUAL REPORT
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**ANNUAL REPORT OF THE MEDICAL OFFICER
OF HEALTH FOR THE YEAR 1949, WITH THE
SANITARY INSPECTORS' REPORT.**

- A. H. TOWERS, M.B., Ch.B., B.Hy., D.P.H., Medical
Officer of Health (Part time) also Assistant
Medical Officer of Health, Cumberland County
Council.
- J. S. WATSON, R.S.I., Meat and Food Inspector's
Certificate, Chief Sanitary Inspector and Housing
Officer.
- C. W. FRASER, R.S.A., (Scot) Assistant Sanitary
Inspector and Housing Officer.
- J. HILL, Cert., S.I.B., Meat and Food Inspector's
Certificate, Assistant Sanitary Inspector and
Housing Officer.
-

BORDER RURAL DISTRICT COUNCIL.

To the Chairman and Members of the Border Rural District Council.

Mr. Chairman, Ladies and Gentlemen,

I have pleasure in presenting my eleventh Annual Report, that for 1949, on the Health and Sanitary Circumstances of the area.

My report shows very little difference from previous reports — there was no big epidemic and the health of the district remained good.

In the Vital Statistics Section I would draw attention to the Infant Mortality Rate, which has fallen to 25. This is always a most satisfactory figure to keep low.

In the Infectious Diseases Section it will be noted that there were no cases of Diphtheria and Immunisation continues to be carried out at the Clinics and at School Medical Inspections.

My department continues to work most harmoniously with that of your Engineer and I must again express my thanks to Mr. Gray for the help he has given me.

To your Chief Sanitary Inspector I now owe a deep debt of gratitude for the never failing help and assistance he has afforded me during our 11 years we have worked together.

Finally I must tender to the Chairman and every member of the Council my gratitude and appreciation for their invariable kindness and support.

I have the honour to be,

Ladies and Gentlemen,

Your obedient Servant,

● A. H. TOWERS,

Medical Officer of Health.

SECTION A.

Statistics and Social Conditions.

Area (in acres)	250,464
Number of inhabited houses at the end of 1949, according to the Rate Books	7,796
Rateable Value	£173,744
Sum represented by a penny rate	£712 8s. 8d.
Population: (a) Civilian	28,850
(b) Total	29,660

The District is principally an agricultural and dairy farming one. A plaster and cement works is increasing in size and importance. Other industries include brick-making, coal mining and quarrying as well as calico works.

VITAL STATISTICS.

Births:

(a) LIVE BIRTHS:	Males	Females	Total
Legitimate	253	225	478
Illegitimate	15	25	40
	268	250	518

Birth Rate per 1,000 of estimated resident population, mid 1949, is therefore 17.9.

Rate of illegitimate to total births — 1 in 11.9.

(b) STILL BIRTHS:	Males	Females	Total
Legitimate	8	9	17
Illegitimate	0	1	1
	8	10	18

Rate per 1,000 of the population — 0.62.

Comparison with other areas:

Birth Rate for England and Wales	....	....	16.7
" " " Administrative County of Cumberland	...	....	18.5
" " " Urban Districts of Cumberland	....	....	18.8
" " " Rural Districts of Cumberland	....	....	18.2
" " " BORDER RURAL DISTRICT			17.9

Compared with previous years:

	1944	1945	1946	1947	1948	1949
Total Live Births -	533	430	485	547	535	518
Birth Rate - -	19.1	15.9	17.6	19.7	18.7	17.9

Deaths:

Males	Females	Total
171	186	357

Death Rate per 1,000 of the population:

(a) Crude	....	....	....	12.3
(b) Corrected		....	....	11.4

For the first time for some years the "Comparability Factor" has been supplied by the Registrar General and its effect in this, a Rural area, is to slightly lower the "Crude" rate.

Comparison with other areas:

Death Rate for England and Wales	....	....	11.7
Crude Death Rate for Administrative County of Cumberland	....	12.8	
" " " " Urban Districts of Cumberland	....	13.4	
" " " " Rural District of Cumberland	....	12.4	
" " " " BORDER RURAL DISTRICT	...	...	12.3

Compared with previous years:

			1944	1945	1946	1947	1948	1949
Total Deaths	-	-	347	335	328	373	315	357
Death Rate (Crude)	-		12.7	12.4	11.9	13.4	11.0	12.3
Death Rate (Corrected)			—	—	—	—	—	11.4

Deaths from Puerperal Causes:

(a) Puerperal Sepsis	....	....	....	0
(b) Other Puerperal Causes	....	....	....	0
Deaths from Cancer (all ages)	....	....	....	49
„ „ Measles (all ages)	....	....	....	2
„ „ Whooping Cough (all ages)	....	....	....	1
„ „ Diarrhoea (under 2 years)	....	....	....	1

Infant Mortality:

Number of deaths of Infants under 1 year.

Legitimate	....	....	11
Illegitimate	....	....	2
Death Rate of all Infants per 1,000 live births			25
„ „ „ Legitimate infants per 1,000 legitimate live births	....	....	23
„ „ „ Illegitimate infants per 1,000 illegitimate live births	....	....	50

Compared with other areas:

Infant Mortality Rate for England and Wales	....	32
„ „ „ „ Administrative Coun- ty of Cumberland	....	34
„ „ „ „ Urban Districts of Cumberland	....	42
„ „ „ „ Rural Districts of Cumberland	....	28
„ „ „ „ B O R D E R R U R A L D I S T R I C T	... ..	25

Compared with previous years:

	1944	1945	1946	1947	1948	1949
Number of deaths of infants under 1 year.	28	16	28	23	16	13
Infant Mortality Rate -	37	37	57	43	29	25

Ages at and causes of death of infants under 1 year:

(a) Ages:

Under 1 day	3
Over 1 day and under 1 week	5
„ 1 week and under 1 month	0
„ 1 month and under 6 months	3
„ 6 months and under 1 year	2

(b) Causes:

Premature Birth	1
Congenital Malformation, birth injuries and infantile diseases	11
Other causes	1

CANCER.

	Male	Female	Total
Number of deaths from Cancer (all ages)	22	27	49

Deaths from Cancer show an increase of 7 over those for 1948.

Incidence of Cancer for past 6 years:

	1944	1945	1946	1947	1948	1949
Deaths - - -	52	44	38	48	42	49
Rate per 1,000 of population - - -	1.9	1.63	1.38	1.73	1.47	1.6
Percentage total deaths	14.9	13.1	11.5	12.8	13.3	13.7

General Causes of Death.

	Male	Female
Typhoid and Paratyphoid Fever	—	—
Cerebro-Spinal Fever	—	—
Scarlet Fever	—	—
Whooping Cough	—	1
Diphtheria	—	—
Tuberculosis of Respiratory System ...	6	6
Other form of Tuberculosis	1	1
Syphilitic Diseases	1	—
Influenza	1	—
Measles	2	—
Acute Poliomyelitis and Polio-Encephalitis	—	—
Acute Infantile Encephalitis	—	—
Cancer:		
Mouth and oesophagus (m) and		
uterus (f)	1	4
Stomach and duodenum	5	6
Breast	—	4
All other sites	16	13
Diabetes	3	2
Intra-cranial vascular lesions	22	28
Heart Diseases	51	69
Other diseases of circulatory system ...	12	7
Bronchitis	3	3
Pneumonia	5	—
Other respiratory diseases	6	2
Ulcer of stomach and duodenum	—	—
Diorrhoea—under 2 years of age	—	1
Appendicitis	—	1
Other digestive diseases	2	5
Nephritis	5	8
Puerperal and Post-Abortive sepsis ...	—	—
Other maternal causes	—	—
Premature Birth	—	1
Congenital Malformations, birth in-		
juries, etc.	6	5
Suicide	—	1
Road Traffic Accidents	3	1
Other violent causes	8	3
All other causes	12	14
	171	186

SECTION B.

General Provision of Health Services.

Laboratory Facilities.

The Pathological Laboratory of the Cumberland Infirmary is available for the examination of specimens sent for examination by practitioners as well as those sent by your Medical Officer.

Ambulance Facilities.

The Ambulance Service is now administered by the County Council. The number of Ambulances (and sitting case cars) is adequate for the needs of the District.

All antiquated and worn out vehicles are gradually being replaced by modern new ones.

Nursing in the Home.

Has now been taken over from the District Nursing Associations.

Sick room requisites are available on loan.

District Nurses are stationed at:

Burgh-by-Sands.	Irthington.
Wetheral.	Dalston.
Carleton and Scotby.	Longtown (2).
Brampton.	Lanercost.
Houghton.	Farlam.

Hayton is vacant but is being covered by Farlam temporarily.

Bewcastle is also vacant, but being covered by Longtown.

Clinics and Treatment Centres.

No change has taken place as regards School and Infant Welfare Clinics and Dental Clinics.

Towards the end of the year the Tuberculosis work at the Dispensaries began to be taken over by the Regional Hospital Board.

Hospital Accommodation.

Hospital accommodation remains adequate for the District, the Hospitals available being:

(a) **General:**

Cumberland Infirmary, Carlisle.
City General Hospital, Carlisle.
Brampton Cottage Hospital.

(b) **Special:**

Infectious Diseases Hospital, Longtown.
City Infectious Diseases Hospital, Carlisle.
Garlands Mental Hospital, Carlisle.
Blencathra Sanatorium, Threlkeld.
Meathop Sanatorium, Grange-over-Sands.
Ethel Hedley Orthopaedic, Windermere.
Oswestry Orthopaedic Hospital.

SECTION C.

Sanitary Circumstances of the Area.

Water.

The many sources of supply utilised vary in quality so far as hardness is concerned otherwise they are maintained so as to yield potable supplies of good quality. Unfortunately the increased consumption principally due to the increase in dairy farming and domestic requirements has shown the Council's water-works as inadequate in the quantity of water available and capacity of the distributing mains.

No samples were taken during the year of raw water before treatment but 5 bacteriological samples were examined and found satisfactory. Only two chemical analyses were obtained but were satisfactory.

None of the waters supplied, although previously tested, are considered to have plumbo solvent properties and no laboratory tests have been made in this respect.

No special action was found necessary in respect of any form of contamination.

Particulars of Water Supplied

Parish	No. of Houses in Parish	Direct to Houses No. of Houses supplied	to Houses Population supplied	By means of public stand pipes	
				No. of Houses supplied	Population supplied
Arthuret ...	626	612	2236		
Askerton ...	50	4	15		
**Beaumont ...	132				
Bewcastle ...	141	58	212		
Brampton ...	877	800	2916	31	112
**Burgh-by-Sands	222				
Burtholme ...	67	44	161		
Carlatton ...	9	No	Supply		
Castle Carrock	91	71	260	3	11
*Cummersdale	228	7	26		
Cumrew ...	24	15	55		
Cumwhitton	97	62	226		
Dalston ...	539	502	1823	20	72
Denton Nether	92	41	150		
Denton Upper	33	15	55	4	14
Farlam ...	245	239	873		
Geltsdale ...	3	No	Supply		
Hayton ...	390	356	1297	24	87
Hethersgill	124	88	321		
Irthington ...	188	152	556	6	22
*Kingmoor ...	297	62	226	10	36
Kingwater ...	59	No	Supply		
Kirkandrews	201	182	664		
Kirkclinton ...	75	64	234		
Midgeholme	45	33	121	9	33
Nicholforest	131	47	171		
Orton ...	98	89	325		
Rockcliffe ...	200	187	719	7	25
*St. Cuthberts	470	352	1283	14	50
Scaleby ...	91	85	310		
Solport ...	61	No	Supply		
*Stanwix ...	329	76	277	8	29
Stapleton ...	79	53	193		
Walton ...	86	45	164	9	33
Westlinton	97	85	310		
Waterhead	55	3	12		
*Wetheral ...	1105	754	2755	25	94

** Parish wholly supplied by the Corporation of Carlisle in their Statutory Area.

* Parishes partly supplied by the Corporation of Carlisle.

Sewerage.

The villages of Cotehill and Great Orton were provided with sewers and outfall works.

The plans for Irthington village were amended on lines suggested by the Ministry as a measure of economy.

Work on the sewerage for Thurstonfield village remained incomplete at the end of the year.

A scheme for Crosby-on-Eden was prepared.

SECTION D.

Housing.

(See Sanitary Inspector's Report)

SECTION E.

Inspection and Supervision of Food.

(See Sanitary Inspector's Report)

SECTION F.

Prevalence and Control over Infectious Disease.

There was no marked epidemic during the year. Measles showed a sharp rise from 115 to 269 and Scarlet Fever was up from 28 to 78, but apart from these two rises there was nothing worthy of comment.

There was one case of Poliomyelitis.

No cases of Diphtheria occurred.

Immunisation against diphtheria was again carried out at the School Medical Inspections, as well as re-enforcing doses to those who had been originally immunised 4 to 5 years previously.

The figures for Immunisation are as follows:—

Immunised during 1949:

Age 0 to 5 years	....	454
Age 5 to 15 years	....	70
Total	....	524
Re-Immunised	....	643

It may be interesting to note that the total figures from 1941, when the Immunisation Campaign was started, to the end of 1949 are as follows:—

Age 0 to 5 years	....	3111
Age 5 to 15 years	....	4664
Total	....	7775
Re-Immunised	....	2018

Infectious Diseases.
(Civilians Only)

			Cases		Admitted to	Deaths
			1948	1949	Hospital	
Smallpox	...	...	—	—	—
Scarlet Fever	...	...	28	78	70	
Diphtheria	...	...	3	—	—	
Typhoid & Paratyphoid			—	3	3	
Puerperal Pyrexia	...		2	1	—	
Pneumonia	...	...	12	4	—	
Measles	...	...	115	269	1	2
Whooping Cough	...		20	41	3	1
Cerebro-Spinal Fever	.		2	—	—	
Erysipelas	...	...	1	1	—	
Ophthalmia Neonatorum			—	—	—	
Dysentery	...	...	—	—	—
Acute Encephalitis	...		1	1	1	
Acute Poliomyelitis	...		14	1	1	

Infectious Diseases—Age Incidence.
(Civilians).

	Under 1— 1 year	2—	3—	4—	5—	10—	15—	20—	35—	45—	65— Plus	Total
Smallpox ...	...	—	—	—	—	—	—	—	—	—	—	—
Diphtheria ...	...	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever ...	6	8	5	9	32	11	1	3	—	2	1	78
Typhoid and Paratyphoid ...	—	—	—	—	—	1	—	1	1	—	—	3
Puerperal Pyrexia ...	—	—	—	—	—	—	—	1	—	—	—	1
Pneumonia ...	—	—	—	1	—	—	1	1	1	—	—	4
Measles ...	7	22	25	22	135	16	4	9	4	3	—	269
Whooping Cough ...	5	1	6	6	15	3	—	—	—	—	—	41
Cerebro-Spinal Fever ...	...	—	—	—	—	—	—	—	—	—	—	—
Erysipelas ...	...	—	—	—	—	—	—	—	—	1	—	1
Ophthalmia Neonatorum ...	...	—	—	—	—	—	—	—	—	—	—	—
Dysentery ...	...	—	—	—	—	—	—	—	—	—	—	—
Acute Encephalitis ...	—	—	—	—	—	1	—	—	—	—	—	1
Acute Poliomyelitis ...	—	—	—	—	1	—	—	—	—	—	—	1

Tuberculosis.

There is no indication of any undue incidence of tuberculosis in any part of the district. or of any undue mortality from any particular employment or occupation.

The standard of notification is good, no instance of wilful failure to notify having come to notice.

Full use continues to be made of facilities provided.

			New Cases				Deaths			
					non-				non-	
			Respiratory		Respiratory		Respiratory		Respiratory	
Age			M.	F.	M.	F.	M.	F.	M.	F.
0 — 1	...		—	—	—	—	—	—	—	—
1 — 5	...		—	—	—	—	—	—	—	—
5 — 15	...		—	—	3	—	—	—	1	—
15 — 25	...		2	5	—	—	—	1	—	—
25 — 35	...		8	1	2	—	4	3	—	—
35 — 45	...		3	1	1	1	1	2	—	1
45 — 55	...		1	1	—	—	1	—	—	—
55 — 65	...		1	3	—	—	—	—	—	—
Over 65	...		—	1	—	—	—	—	—	—
Total	...		15	12	6	1	6	6	1	1

REPORT OF THE CHIEF SANITARY INSPECTOR AND HOUSING OFFICER.

For the year ending 31st December, 1949.

To the Border Rural District Council

Mr. Chairman, Ladies and Gentlemen,

I beg to submit my Sixteenth Annual Report.

Notices Served.

The number of Notices served during the year was:—

			Formal	Informal
Public Health Acts	....	....	2	57
Housing Acts	....	....	4	21
Milk and Dairies Acts and Orders			0	36
			<hr/> 6	<hr/> 114

At the end of the year several of these notices had not been complied with although in some cases agreement had been reached with the owners etc., concerned, to have the necessary work done.

HOUSING.

Repairs.

Great difficulty has again been experienced in getting essential repairs done to houses. The high cost of such repairs, compared with the low rents received, does in many instances impose some hardship on owners. There is often difficulty in obtaining necessary materials.

New Buildings.

During the year 110 grant-aided houses were completed; 84 were provided by the Local Authority and 26 by the Brampton Public Utility Society. In addition 8 houses were completed under private building licences.

At the end of the year 82 houses were under construction by the Local Authority and 12 under private building licences.

The following table gives details on the 31st December, 1949:—

Place.				No. in course of erection.	No. completed during year.
Cummersdale	...	...	...	—	10
Longtown	...	...	...	42	4
Hallbankgate	...	...	...	—	6
Brampton	...	...	...	26	60
Smithfield	...	...	...	4	4
Faugh	...	...	...	4	—
Cargo	...	...	...	4	—
Penton	...	...	...	2	—
*Cotehill	...	...	...	—	21
*Sandysyke	...	...	...	—	5
TOTAL				82	110
By Licence	...	...	...	12	8
GRAND TOTAL				94	118

* Erected by Brampton Public Utility Society.

In addition six houses were provided by the conversion of the Sick Quarters at R.A.F. Station, Crosby-on-Eden. At the end of the year work was still in progress on one house.

Reconditioning.

Accommodation has been provided for 10 families by reconditioning and conversion work.

Section 11, Housing Act, 1949.

Following representations to the Council, demolition orders were issued in respect of two dwelling houses at Brampton, the tenants having been re-housed in Council houses.

Drainage and Water Closets.

The number of new drainage systems installed and water closets provided in place of earth closets,

privies, etc., is 70. 34 of these are drained to the Council's sewers and 36 to cesspools.

Water Supplies.

The number of houses provided with a sufficient water supply is 25.

Camping Sites.

There are 10 camping sites licensed under Section 269 of the Public Health Act, 1936. These have been conducted satisfactorily during the year.

One licence to station a moveable dwelling was issued during the year.

INSPECTION AND SUPERVISION OF FOOD.

Milk and Dairies Orders.

Under the Milk and Dairies Regulations, 1949, the supervision of premises where milk is produced was transferred to the Minister of Agriculture and Fisheries; the change over taking place on the 1st October, 1949. The Local Authority, however, is still responsible for the registration of milk distributors, and the issue of licences to deal in designated milk.

At the end of the year 5 applications for registration as distributors had been received and in 1 case registration had been granted; the others were still under consideration.

Two designated licences were issued, both to the same distributor, one was for a Supplementary Dealer's Licence — Tuberculin Tested, and the other a Supplementary Dealer's Licence — Pasteurised.

Before the transfer of powers to the Ministry of Agriculture, considerable activity could again be reported in this sphere. 635 visits to registered premises were made. Improvements were carried out to 25 cowsheds and 23 premises were provided with suitable cooling and sterilising rooms. 3 new cowsheds were completed. There was an increase of

27 Tuberculin Tested Producers and a decrease of 7 Accredited Producers. 642 samples of milk were taken of which 173 were examined for tubercle. 1 Sample was positive for tubercle.

Licences in force in the District on 30th September, 1949, together with those of previous years.

Year.	Tuberculin Tested Licences.				Accredited Licences.	
Previous to 1935	4	...	...	3
1935	11	...	...	85
1936	23	...	...	111
1937	32	...	...	124
1938	35	...	...	123
1939	42	...	...	123
1940	46	...	...	120
1941	42	...	...	118
1942	41	...	...	107
1943	47	...	...	85
1944	77	...	...	66
1945	105	...	...	48
1946	142	...	...	40
1947	177	...	...	31
1948	219	...	...	24
1949 (30.9).	246	...	...	17

After the transfer of powers to the Ministry of Agriculture discussions between the County Council and other local authorities in the County have taken place regarding the future of milk sampling for tubercle. The Ministry of Agriculture will not be taking such samples and the chief concern of this Council is the milk sold by producer-retailers within the district. Where this is ungraded there is a possible danger to health from tubercle. It is hoped to start a sampling scheme in 1950 to sample twice yearly all those producers who retail ungraded milk within the district. Milk sold wholesale is pasteurised at the Depots in Carlisle before it reaches the consumer.

Ice Cream.

Ice cream is manufactured and retailed at 4 premises and retailed only at 13 other premises within the district.

During the year one manufacturer installed modern equipment to comply with the Ice Cream (Heat Treatment) Regulations, 1947.

10 inspections of premises were made.

Slaughter Houses.

No slaughtering takes place in the district, the meat being supplied from the Public Slaughter House in Carlisle. 14 former slaughter houses, however, are used in connection with retail butchers' businesses and visits continue to be made.

Food unfit for Human Consumption.

13 visits were made to shops and stores and the following foodstuffs condemned:—

Tinned Meat	....	....	21 lbs.
Tinned Milk	....	....	88 lbs.
Tinned Peas	....	....	1 lbs.
Bacon	....	....	4 lbs.
Margarine	....	...	22 lbs.
Sausage Rusks	....	....	448 lbs.
Eggs	....	....	290

Bakehouses.

There are 12 bakehouses in the district, all of which have been conducted in a satisfactory manner.

Knackers Yards.

There are 2 Knackers Yards in the district, both of which have operated satisfactorily during the year.

Rodent Control.

During the year contracts have been continued with the Cumberland Agricultural Executive Committee for the destruction of rats on the Council's refuse tips, and the arrangement has worked satisfactorily.

3 complaints of infestation were investigated during the year and all were dealt with by the occupiers.

Refuse Collection.

No additions have been made to the area collected.

The estimated number of houses receiving a regular collection is 6,130. The town areas of Brampton and Longtown have a twice-weekly collection whilst the remainder of the areas are collected once weekly.

The 10 cubic yards capacity vehicle purchased in December 1948 has proved its worth as the saving in running time to and from the tips is considerable. It appears that this size of vehicle is the most suitable for a district of this nature where long distances have to be travelled daily.

Statement of Expenditure and Receipts for Refuse Collection and Salvage, Year ended March 31st, 1949

Expenditure:	£	s.	d.	£	s.	d.
Wages	2,989	1	3			
Refuse Tips, Rents and Maintenance	85	4	10			
Vehicle Repairs, Oil, Petrol, Etc.	850	6	8			
Overalls, Advertising, Etc.	17	7	6			
Scotby Depot	150	0	0			
Rat Destruction	20	0	0			
Other Expenses	53	16	2			
				4,165	16	5
Receipts:						
Sale of Salvage	146	12	11			
Miscellaneous Income	42	0	0			
				188	12	11
Net Cost				£3,977	3	6

The weights of salvage collected are as follows:

	Tons.	Cwt.
Paper	38	0½
Scrap Metal	1	0
Total	39	0½

During the year great difficulty was experienced in disposing of waste paper, and at one time the price dropped to a figure which did not cover the cost of collection and baling. This was very disappointing in view of the publicity campaign undertaken in the late months of 1948. It is believed, however, that the position will improve in the near future.

Record of Inspections made.

Houses inspected under Housing Acts	...	...	...	189
" " re Proposals for Recconditoning	...			20
" " re Subsidies	...	...	...	8
" " re Overcrowding	...	...	...	24
" " re Dirty Conditions	...	...	...	27
" " re Water Supply	...	...	...	5
" " re Sanitary Accommodation	...	...		132
Nuisances investigated	...	...	...	122
Drains inspected and tested	...	...	...	112
Vans inspected	...	...	...	26
Piggeries	...	...	...	1
Water Courses	...	...	...	12
Refuse Tips	...	...	...	66
Salvage of waste material	...	...	...	2
Rat infestations	...	...	...	3
Infectious disease enquiries	...	...	...	10
Houses disinfected	...	...	...	4
Public Conveniences	...	...	...	2
Schools	...	...	...	3
School Canteens	...	...	...	8
Shops Acts Inspections	...	...	...	16
Factories	...	...	...	82
Works Hostels	...	...	...	3
Cowsheds and Dairies	...	...	...	639
Milk Samples taken	...	...	...	642
Ice-cream premises	...	...	...	10
Butchers' Shops	...	...	...	12
Restaurant Kitchens	...	...	...	2
Bakehouses	...	...	...	7
Unsound food in Shops, etc.	...	...	...	6
Knackers' Yards	...	...	...	10
Council Housing Schemes	...	...	...	45
New Housing Sites	...	...	...	38
Council House Repairs, etc.	...	...	...	260
Visits paid to housing applicants	...	...	...	338
Requisition of houses	...	...	...	2
Visits re building licences	...	...	...	24
Inspections under Petroleum Acts	...	...	...	52
Cysticercus Bovis investigations	...	...	...	5
Accommodation occupied by Squatters	...	...	...	32
Miscellaneous	...	...	...	19

3,020

List of Works Executed.

	By Notice	Without Notice
Houses—		
Provided with a sufficient supply of water	—	25
Provided with sufficient closet accom. ...	—	—
Closets converted to W.C.'s	2	68
W.C.'s cleansed and repaired	—	12
Milk and Dairies Order—		
Cowsheds reconstructed and approved	—	20
New cowsheds provided	—	4
Cooling and Sterilising rooms provided or improved and sterilising plant installed	—	20
Drainage—		
Existing drains connected to sewer ...	—	1
New drains provided and connected to sewer	2	32
New drains provided to cesspools ...	—	36

I am,

Your obedient Servant,

J. S. WATSON,

Chief Sanitary Inspector.

RICHARD HOWE
Brampton :: Cumb.
